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File Code: 3410 **Date:** November 17, 2000
Route To:
Subject: 2000 Insect and Disease Aerial Detection Survey
To: Area Director
Bureau of Indian Affairs
Phoenix Area Office
P. O. Box 10
Phoenix, AZ 85001

The annual insect and disease detection survey was conducted over the San Carlos Indian Reservation July 18 and 19, 2000. This letter will serve a summary of the insect and disease conditions recorded during those flights.

A decrease in bark beetle activity was mapped in 2000. A total of 421 acres of bark beetle related tree mortality was mapped in 2000 as compared to 946 acres in 1999. This activity was attributed to *Ips* spp. (211 acres) and western pine beetle (210 acres). These figures, especially the acreage attributed to *Ips,* may be conservative for 2000 due to a late season fading of infested trees which may have occurred after our survey. Jill Wilson, Entomologist from our office, identified western pine beetle, roundheaded pine beetle and *Ips* engraver beetles in ponderosa pine mortality areas on the Fort Apache Indian Reservation. It is possible that the mortality being seen on the San Carlos Indian Reservation may include mortality due to all three bark beetles. Defoliation of ponderosa pine by Prescott Scale was recorded on 10,094 acres (10,067 acres of light defoliation and 27 acres heavy defoliation) and by ponderosa pine needle miner, 324 acres of light defoliation. Aspen defoliation was recorded on 78 acres (57 acres of light and 21 acres of heavy). Fire was recorded on 5,009 acres, most of which was near Dry Prong and Freezeout creeks and the Sawmill lake area.

A hard copy map was sent to Victoria Wesley at San Carlos Tribal Forestry. Electronic format copies of the map files and data are available to the Area Office, Bureau of Indian Affairs staff and San Carlos Tribal Forestry for use on any projects where this information would be of value. Please forward this letter to the appropriate personnel.

If you have any questions regarding this survey, the data in this letter or to check on the availability of the maps please contact Bobbe Fitzgibbon (520-556-2072) or Steve Dudley (520-556-2071).

/s/ *John Anhold*

JOHN ANHOLD
Arizona Zone Leader

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Victoria Wesley, San Carlos Tribal Forestry

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